

GO GREEN.....help us save the environment

Radiant Barrier Heat Insulation

WHAT IS RADIANT BARRIER HEAT INSULATION?

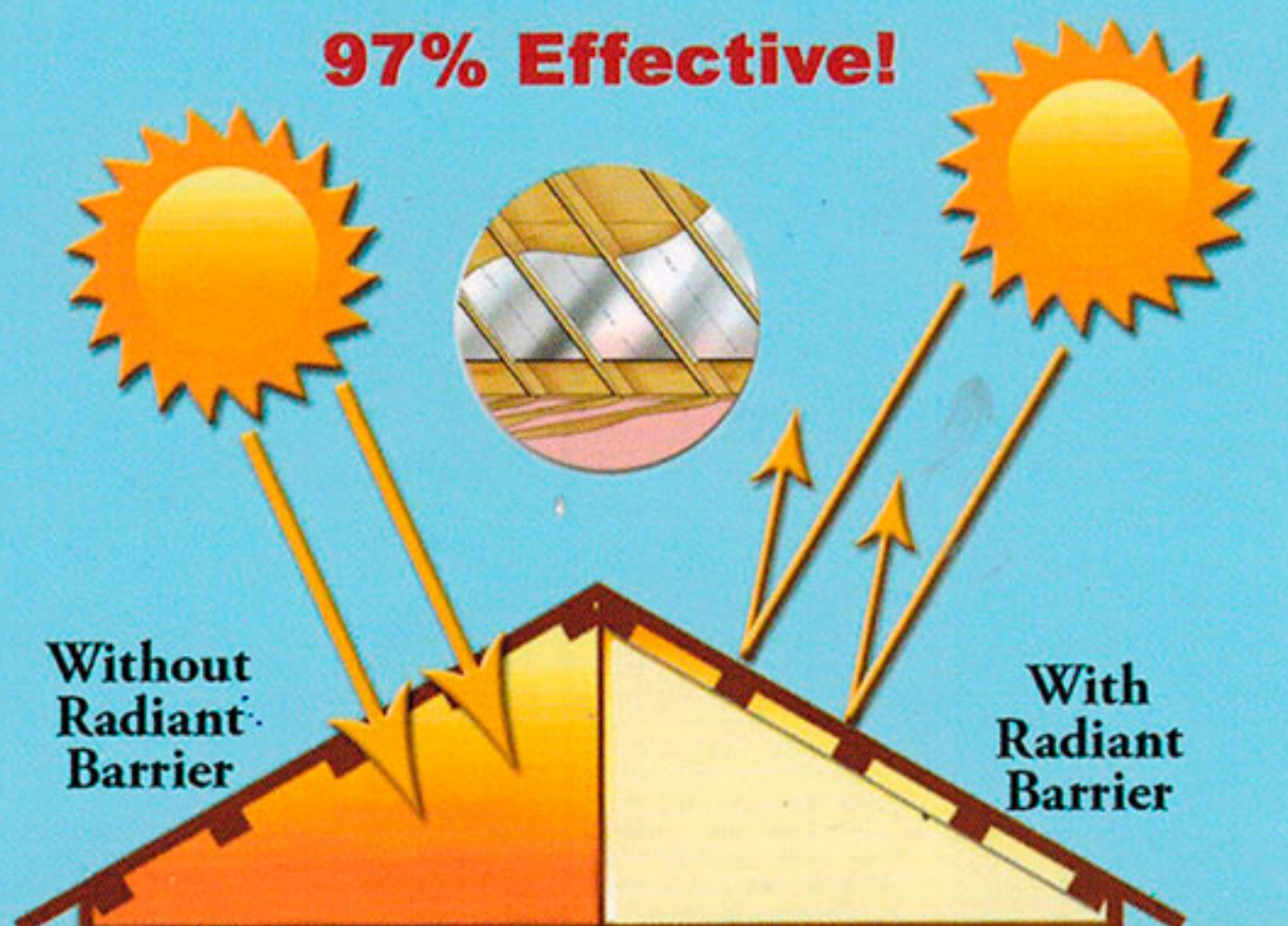
Radiant barrier insulation is a reflective insulation system that offers a permanent way to reduce heat. Radiant barrier insulation reflects radiant heat energy instead of trying to absorb it. It consists of a pure aluminumized film which is unaffected by humidity and will continue to perform at a consistent level no matter how humid it may be. This is not kitchen foil (kitchen foil is only about 20% aluminum, this 99.5% pure aluminum).

Most people are familiar with traditional insulating materials such as fibreglass, styrofoam and rock wool. These products use their ability to absorb or resist (slow down) convective and conductive heat transfer to insulate (R-value). A third, seldom discussed but dominant form of heat transfer that exists is: **RADIANT HEAT TRANSFER**.

A radiant barrier insulation reflects radiant heat energy instead of trying to absorb it. There are two properties on which radiant barrier works: Reflectivity and Emissivity. First, the aluminum is reflective on the hot side, reflecting most of the heat from where it came. Second and most important, aluminum has a low emissivity of between 0.03 and 0.05. This means that only 3% - 5% of the heat is emitted to the inside of the building.

Benefits of Radiant Barrier Heat Insulation

- > Reflects 98% of radiant heat
- > Class A / Class 1 Fire Rating
- > Non - toxic / non - carcinogenic
- > Does not require protective clothing to install
- > Cost effective
- > Durable and lightweight
- > Not affected by moisture or humidity
- > Easy to install and maintenance free
- > Lowers electricity cost (when A/C is in use)
- > This product pays for itself

97% Effective!

E - mail: sales@roof-it.net
Website: www.roof-it.net

RADIANT BARRIER HEAT INSULATION

HOW DOES IT WORK?

Answer: It is a radiant reflector. Unlike many insulations which slows down heat transfer it reflects heat. To stop radiant heat you must reflect it with a radiant barrier.

WHERE DO YOU INSTALL IT?

Answer: Over your roof's purlins like a blanket or stapled under your wooden rafters and in your attic spaces.



Radiant barrier heat insulation installed over Z - purlins on steel frame.

HOW CAN IT KEEP HEAT OUT?

Answer: Radiant barrier reflects the sun's heat before it can warm up the space in your attic. It may help to understand if you think of other materials that perform the same way; ASTRONAUTS SPACE SUIT- keep body heat in and reflect the sun's heat away.

HAS RADIANT BARRIER HEAT INSULATION BEEN TESTED BY A QUALIFIED INDEPENDENT LABORATORY?

Answer: The Florida Solar Energy Center at Cape Canaveral has tested radiant barrier in both small scale laboratories and in full scale building models. Their results indicate that it has provided significant resistance to heat transfer.

CAN RADIANT BARRIER INSULATION SAVE ME MONEY?

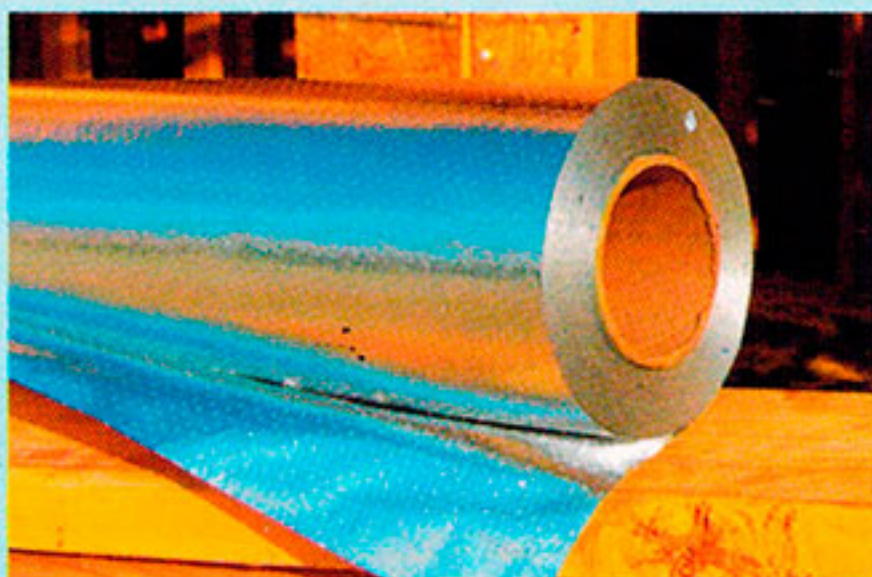
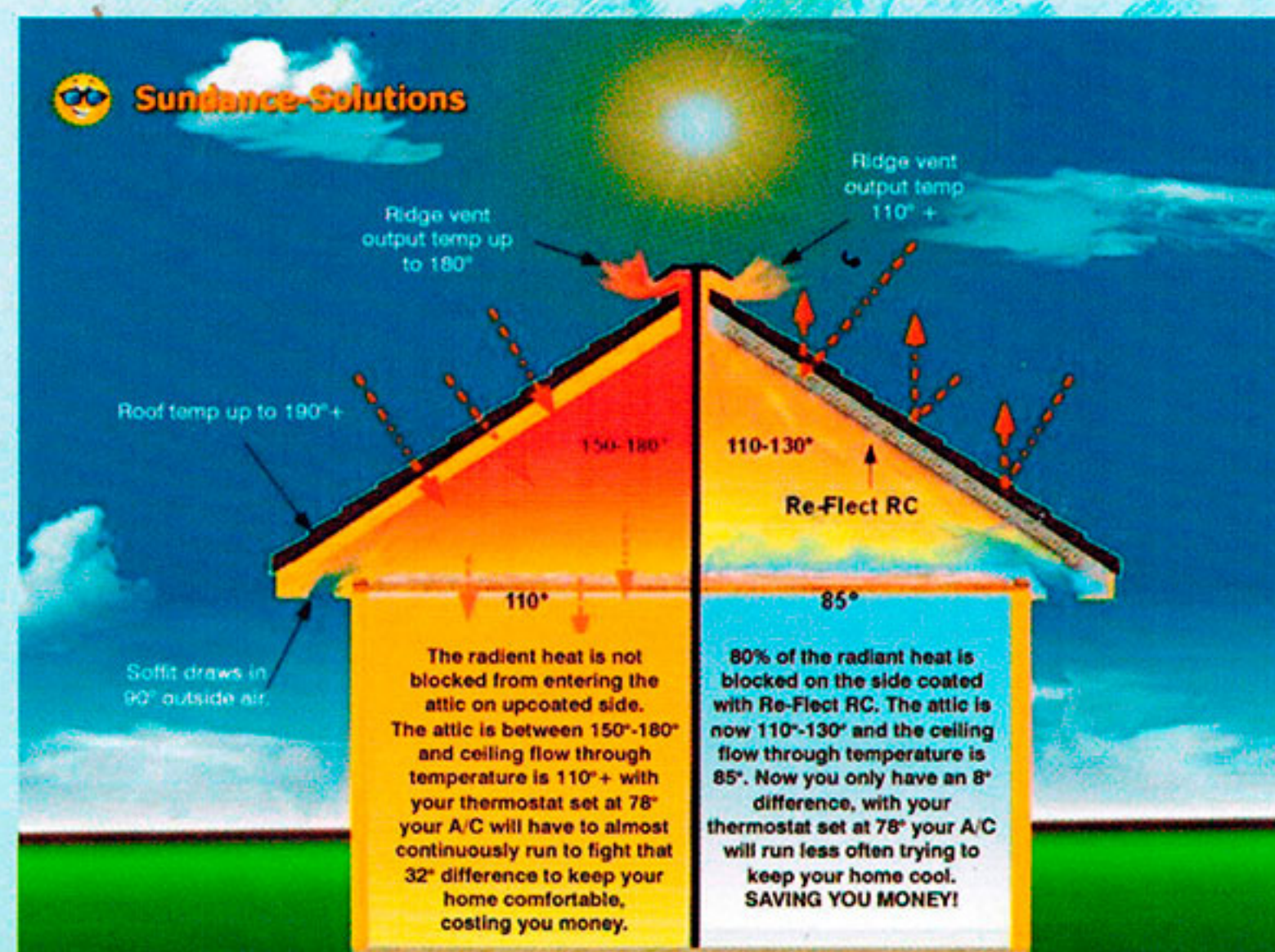
Answer: Yes, if the floor below the roof is being air conditioned. Radiant Barrier reduces the amount of heat entering into the building causing the A/C condenser to work on shorter cycles and therefore saving money on electricity. Over time these savings will repay the cost of having the radiant barrier.

PRODUCT SPECIFICATIONS

PRODUCT: 99% pure aluminum foil with woven polyethylene scrim
WEIGHT: 28.6 lb 1000/square feet roll +/- 5%
TENSILE STRENGTH: Test Method ASTM D-828
Machine Direction: 83.7 lb/in width
Cross Direction: 70.1 lb/in width
FLAME SPREAD: 10 ASTM E84
FIRE RATING: Class A/Class 1 ASTM E84
SMOKE DEVELOPMENT: 10 ASTM E84
WATER VAPOR PERMEABILITY: 72g/m2/24hr 14 perms ASTM E-96
Temperature Range -76° F to +212° F ASTM C411
THERMAL PROPERTIES: Emissivity 0.03* (Reflects 97% of Infrared Energy) ASTM E408
UNITED STATES TESTING COMPANY, INC.

When the sun's heat radiant it does not penetrate the reflective surface.

Improve the comfort of your home and save money.



Roll of radiant barrier heat insulation

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Website: www.roof-it.net

E-Mail: sales@roof-it.net